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Marked-up Claims

71. (Amended) A system for analyzing an extended object according to Claim 1 [labeled with at least two unit-specific markers] comprising:

a central processing unit;

an input device for inputting [a] the plurality of object-dependent impulses of [an] the extended object;

an output device;

a memory;

at least one bus connecting the central processing unit, the memory, the input device, and the output device;

the memory storing a calculating module configured to calculate [an] the autocorrelation function for said plurality of object-dependent impulses of said extended object input using said input device.

90. (Amended) A computer program product for use in conjunction with a computer, the computer program product comprising a computer readable storage medium and a computer program mechanism embedded therein, the computer program mechanism comprising a calculating module configured to calculate [an] the autocorrelation function of [a] the plurality of object-dependent impulses according to the method of Claim 1.